

FIG. 1

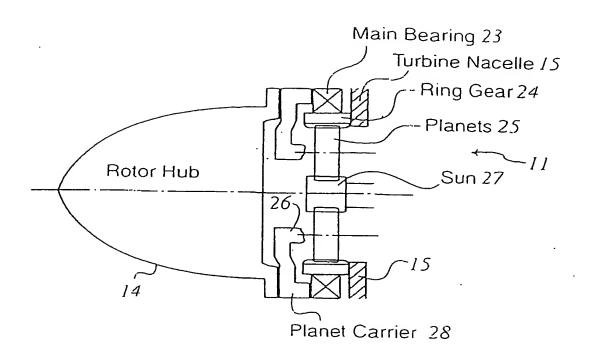


FIG. 2

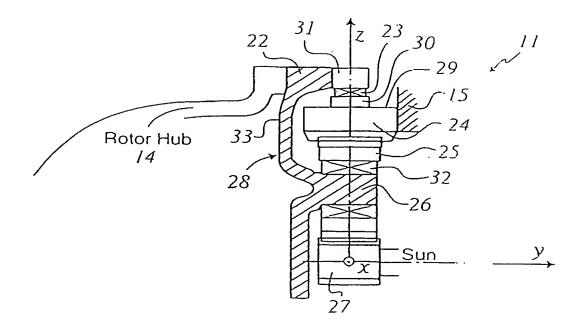


FIG. 3

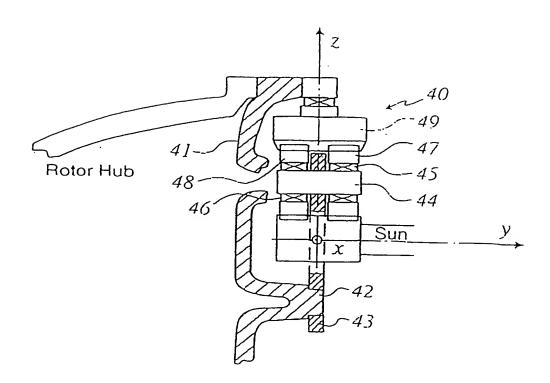
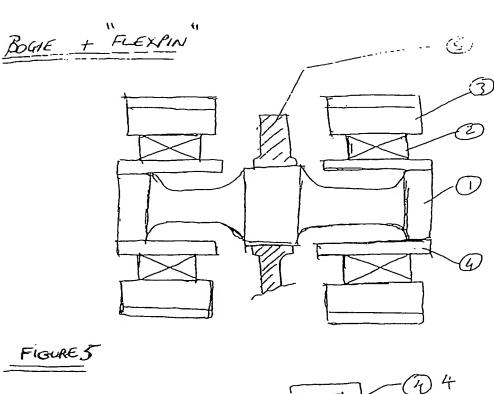


FIG. 4



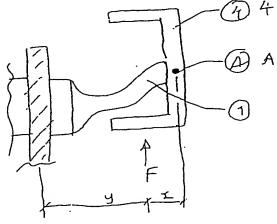


FIGURE 16

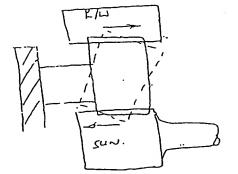
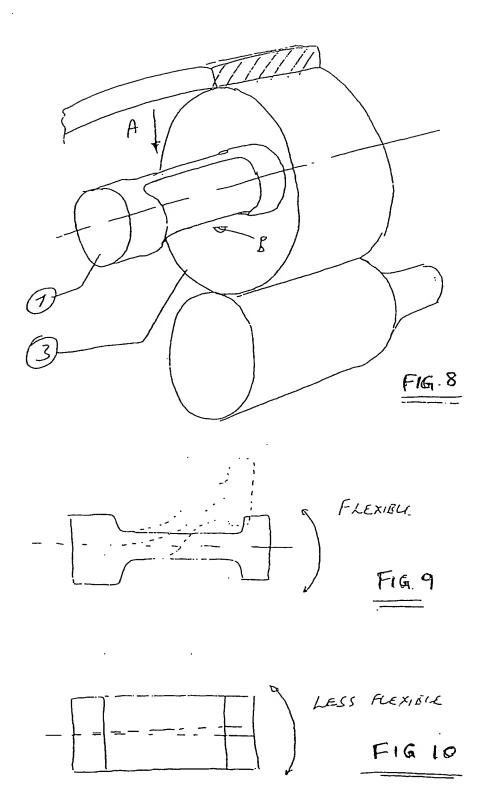


FIGURE 7



INTERNATIONAL SEARCH REFURT International Application No PCT/IB2004/003949 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16H1/28 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 F03D F16H Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. DE 22 35 448 A1 (A. FRIEDR. FLENDER & CO, 14 X 4290 BOCHOLT) 7 February 1974 (1974-02-07) 1 figures Α 14 WO 02/14690 A (HANSEN TRANSMISSIONS X INTERNATIONAL NV; FLAMANG, PETER; DE WILDE, MARCE) 21 February 2002 (2002-02-21) figures 1 WO 02/079644 A (VESTAS WIND SYSTEMS A/S; 14 X CHRISTENSEN, MOGENS) 10 October 2002 (2002-10-10) 1 figures Α 14 US 6 232 673 B1 (SCHOO ALFRED ET AL) X 15 May 2001 (2001-05-15) 1 figures Α

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date Coument which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means Coument published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but clted to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
7 April 2005	20/04/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Goeman, F

2

INTERNATIONAL SEARCH REPURI

International Application No
PCT/IB2004/003949

C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/002891 A (THE TIMKEN COMPANY; FOX, GERALD) 9 January 2003 (2003-01-09)	14
Α	figures	1
X	US 2003/123984 A1 (WILDE MARCEL DE ET AL) 3 July 2003 (2003-07-03)	14
Α	figures	1
		{

マードマンと・こうくとし クロカシウ・ジャック・

Information on patent family members

International Application No PCT/IB2004/003949

			101,152001,000313			
Patent documen cited in search rep		Publication date		Patent family member(s)		Publication date
DE 2235448	A1	07-02-1974	NONE			
WO 0214690	A	21-02-2002	AU	7659301		25-02-2002
			CN	1447880	Α	08-10-2003
			EP	1311759		21-05-2003
			WO	0214690		21-02-2002
			JP	2004506845		04-03-2004
			US	2004038770	A1	26-02-2004
WO 02079644	A	10-10-2002	DK	200100545	A	03-06-2002
			CA	2442028		10-10-2002
			WO	02079644		10-10-2002
			EP	1373720		02-01-2004
			JP	2004532370		21-10-2004
			US	2004105753	A1	03-06-2004
US 6232673	B1	15-05-2001	DE	19916453	A1	19-10-2000
			EP	1045139	A2	18-10-2000
			JP	2000337245	Α	05-12-2000
WO 03002891	A	09-01-2003	US	2003008748	A1	09-01-2003
			EP	1399682		24-03-2004
			JP	2004531680		14-10-2004
			WO	03002891		09-01-2003
			US 	2004235604	A1	25-11-2004
US 20031239	84 A1	03-07-2003	AT	264456		15-04-2004
			AU	3588201		14-08-2001
			DE	60102794		19-05-2004
			DK	1252442	T3	09-08-2004
			EP	1252442		30-10-2002
			ES	2218392		16-11-2004
			GB	2384836		06-08-2003
			WO	0157398	ΑI	09-08-2001